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NEWS	13	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS	14	APR 07	CA/CAPLUS CLASS Display Streamlined with Removal of Pre-IPC 8 Data Fields
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:18:16 ON 12 APR 2010

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.66	0.66

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 11:20:14 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAPlus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s RNA or ribonucleic

	393838 RNA
	195494 RIBONUCLEIC
L1	475087 RNA OR RIBONUCLEIC

=> s lithium

L2	378525 LITHIUM
----	----------------

=> s binding or extraction or purification or separation or isolation

	1144661 BINDING
	207869 EXTRACTION
	388983 PURIFICATION
	252971 SEPARATION
	300779 ISOLATION
L3	2207845 BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLATION

=> s 11 and 12 and 13

L4	289 L1 AND L2 AND L3
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=> s 14 and (PY<2002 or AY<2002 or PRY<2002)

22006653 PY<2002
4243473 AY<2002
3712015 PRY<2002
L5 124 L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.91	3.57

FILE 'STNGUIDE' ENTERED AT 11:20:21 ON 12 APR 2010
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=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.14	3.71

FILE 'HCAPLUS' ENTERED AT 11:21:41 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s guanidinium or thiocyanate or isothiocyanate

7524 GUANIDINIUM
42962 THIOCYANATE
29807 ISOTHIOCYANATE
L6 77588 GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE

=> s 15 not 16

L7 89 L5 NOT L6

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.91	6.62

FILE 'STNGUIDE' ENTERED AT 11:21:43 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 9, 2010 (20100409/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.14	6.76

FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (solid support) or (solid phase)

1258254 SOLID
603476 SUPPORT
10289 SOLID SUPPORT
 (SOLID(W) SUPPORT)
1258254 SOLID
2087139 PHASE
125173 SOLID PHASE

(SOLID(W)PHASE)
L8 132436 (SOLID SUPPORT) OR (SOLID PHASE)

=> s 17 and 18

L9 6 L7 AND L8

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.91	9.67

FILE 'STNGUIDE' ENTERED AT 11:23:13 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 9, 2010 (20100409/UP).

=> d 19 1-6 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L9 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Compositions and methods for using a solid support to
purify RNA
AB The invention concerns a method for purifying substantially pure and
undegraded RNA from biol. material comprising RNA,
comprising the steps of: (a) mixing the biol. material with an RNA
Lysing/ Binding Solution buffered at a pH of greater than about 7,
the RNA Lysing/Binding Solution comprising an RNA
-complexing salt; (b) contacting the mixture to a solid
support such that nucleic acids comprising substantially
undegraded RNA in the mixture preferentially bind to the
solid support; (c) washing the solid
support with a series of RNA wash solns. to remove biol.
materials other than bound nucleic acids comprising substantially
undegraded RNA, wherein the series of wash solns. comprises a
first wash comprising alc. and an RNA-complexing salt at a
concentration of at least 1 M and a second wash comprising an alc., buffer and
an optional chelator; and (d) preferentially eluting the bound substantially
undegraded RNA from the solid support with
an RNA Elution Solution in order to obtain substantially pure and
undegraded RNA. Reagents, methods and kits for the purification of
RNA from biol. materials are provided.
AN 2004:80382 HCAPLUS
DN 140:107795
TI Compositions and methods for using a solid support to
purify RNA
IN Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim
Elayne; Wages, John M.
PA USA
SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 3
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	US 20040019196	A1	20040129	US 2003-418194	20030416 <--
	US 7148343	B2	20061212		
	US 20030073830	A1	20030417	US 2001-974798	20011012 <--
	CA 2463317	A1	20030424	CA 2001-2463317	20011012 <--
	AU 2002211719	A1	20030428	AU 2002-211719	20011012 <--
	AU 2002211719	B2	20070614		
	EP 1438426	A1	20040721	EP 2001-979794	20011012 <--
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	JP 3979996	B2	20070919		
	AU 2004233035	A1	20041104	AU 2004-233035	20040415 <--
	AU 2004233035	B2	20090723		
	CA 2522446	A1	20041104	CA 2004-2522446	20040415
	WO 2004094635	A2	20041104	WO 2004-US12033	20040415
	WO 2004094635	A3	20041216		
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	EP 1618194	A2	20060125	EP 2004-760008	20040415
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	US 20050032105	A1	20050210	US 2004-909724	20040802 <--
	US 20070043216	A1	20070222	US 2006-589364	20061030 <--
PRAI	US 2001-974798	A2	20011012	<--	
	AU 2002-211719	A3	20011012	<--	
	WO 2001-US32073	W	20011012	<--	
	US 2003-418194	A	20030416		
	WO 2004-US12033	W	20040415		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

AB The invention includes reagents and methods for the isolation of nucleic acids. The reagents described herein contain a nucleic acid precipitating agent and a solid phase carrier. The reagents can optionally be formulated to cause the lysis of a cell. These reagents can be used to isolate a target nucleic acid mol. from a cell or a solution containing a mixture of different size nucleic acid mols. In a preferred embodiment plasmid DNA from bacterial cells are purified by precipitation with 1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration

The DNA is further purified by reversible binding to paramagnetic beads that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a mixture of nucleic

acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification. The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 2002:539860 HCAPLUS

DN 137:89428

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

IN McKernan, Kevin J.

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055727	A2	20020718	WO 2002-US353	20020109 <--
	WO 2002055727	A3	20021003		
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2433746	A1	20020718	CA 2002-2433746	20020109 <--
	AU 2002239826	A1	20020724	AU 2002-239826	20020109 <--
	US 20020106686	A1	20020808	US 2002-42923	20020109 <--
	EP 1349951	A2	20031008	EP 2002-705692	20020109 <--
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	US 20060024701	A1	20060202	US 2005-126775	20050511 <--
PRAI	US 2001-260774P	P	20010109	<--	
	US 2002-42923	B1	20020109		
	WO 2002-US353	W	20020109		

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OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L9 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support

AB The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD11a, CD18, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second

solid support which is neg. charged. Kits for isolating nucleic acid from samples form further embodiments of the invention.

AN 2001:904506 HCAPLUS

DN 136:15912

TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support

IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack

PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001094572	A1	20011213	WO 2001-GB2472	20010605 <--
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	CA 2410888	A1	20011213	CA 2001-2410888	20010605 <--
	CA 2410888	C	20080916		
	EP 1290155	A1	20030312	EP 2001-934205	20010605 <--
	EP 1290155	B1	20060809		
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	AT 335815	T	20060915	AT 2001-934205	20010605 <--
	ES 2269399	T3	20070401	ES 2001-934205	20010605 <--
	US 20030180754	A1	20030925	US 2003-297301	20030430 <--
	US 20080293035	A1	20081127	US 2008-98411	20080404 <--
PRAI	GB 2000-13658	A	20000605	<--	
	WO 2001-GB2472	W	20010605	<--	
	US 2003-297301	B1	20030430		

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OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Solid phase technique for selectively isolating nucleic acids

AB A method of isolating target nucleic acid mols. from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb, the target

species of nucleic acid mol., characterized by a particular mol. size, to paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high

quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 1999:736906 HCAPLUS

DN 131:334336

TI Solid phase technique for selectively isolating nucleic acids

IN McKernan, Kevin; McEwan, Paul; Morrison, William

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9958664	A1	19991118	WO 1999-US10572	19990513 <--
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	US 6534262	B1	20030318	US 1999-311317	19990513 <--
	US 20030235839	A1	20031225	US 2003-346714	20030116 <--
	US 20040214175	A9	20041028		
	US 20060003357	A1	20060105	US 2005-129218	20050513 <--
PRAI	US 1998-85480P	P	19980514	<--	
	US 1999-121779P	P	19990226	<--	
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	US 2003-346714	A3	20030116		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components

AB The present invention provides a method of isolating nucleic acid from a sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.

AN 1996:458048 HCAPLUS

DN 125:107039

OREF 125:19863a,19866a

TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components

IN Deggerdal, Arne Helge; Larsen, Frank

PA Dynal A/s, Norway; Dzieglewska, Hanna Eva

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9618731	A2	19960620	WO 1995-GB2893	19951212 <--
	WO 9618731	A3	19960912		
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	US 20070190559	A1	20070816	US 2007-671426	20070205 <--
	US 20080300396	A1	20081204	US 2008-54332	20080324 <--
	US 20090068724	A1	20090312	US 2008-130926	20080530 <--
	US 20090149646	A1	20090611	US 2008-130959	20080530 <--
PRAI	GB 1994-25138	A	19941212	<--	
	WO 1995-GB2893	W	19951212	<--	
	US 1997-849686	A1	19970821	<--	
	US 2005-234001	A1	20050923		
	US 2007-671426	B1	20070205		
	US 2008-54332	A1	20080324		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Purification of nucleic acids from solution without precipitation by binding to a solid phase
AB A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide binding to the magnetic microparticles. The magnetic microparticles with bound polynucleotides are separated from the solution and the polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude preps. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution buffer.
AN 1996:350414 HCAPLUS
DN 125:5056
OREF 125:1147a,1150a
TI Purification of nucleic acids from solution without precipitation by binding to a solid phase
IN Hawkins, Trevor
PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9609379	A1	19960328	WO 1995-US11839	19950919 <--
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5705628	A	19980106	US 1994-309267	19940920 <--
	IL 115352	A	20090211	IL 1995-115352	19950919 <--
	US 5898071	A	19990427	US 1998-2412	19980102 <--
PRAI	US 1994-309267	A	19940920	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 29 THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:18:16 ON 12 APR 2010)

FILE 'HCAPLUS' ENTERED AT 11:20:14 ON 12 APR 2010

L1 475087 S RNA OR RIBONUCLEIC
L2 378525 S LITHIUM
L3 2207845 S BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLAT
L4 289 S L1 AND L2 AND L3
L5 124 S L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

FILE 'STNGUIDE' ENTERED AT 11:20:21 ON 12 APR 2010

FILE 'HCAPLUS' ENTERED AT 11:21:41 ON 12 APR 2010

L6 77588 S GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE
L7 89 S L5 NOT L6

FILE 'STNGUIDE' ENTERED AT 11:21:43 ON 12 APR 2010

FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010

L8 132436 S (SOLID SUPPORT) OR (SOLID PHASE)
L9 6 S L7 AND L8

FILE 'STNGUIDE' ENTERED AT 11:23:13 ON 12 APR 2010

FILE 'HCAPLUS' ENTERED AT 11:23:21 ON 12 APR 2010

FILE 'STNGUIDE' ENTERED AT 11:23:23 ON 12 APR 2010

=> log hold

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	ENTRY	SESSION
FULL ESTIMATED COST	0.07	31.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-5.10

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:23:29 ON 12 APR 2010

=> file hcaplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.66	0.66

FILE 'HCAPLUS' ENTERED AT 11:20:14 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s RNA or ribonucleic

	393838 RNA
	195494 RIBONUCLEIC
L1	475087 RNA OR RIBONUCLEIC

=> s lithium

L2	378525 LITHIUM
----	----------------

=> s binding or extraction or purification or separation or isolation

	1144661 BINDING
	207869 EXTRACTION
	388983 PURIFICATION
	252971 SEPARATION
	300779 ISOLATION
L3	2207845 BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLATION

=> s l1 and l2 and l3

L4	289 L1 AND L2 AND L3
----	----------------------

=> s l4 and (PY<2002 or AY<2002 or PRY<2002)

22006653 PY<2002
4243473 AY<2002
3712015 PRY<2002
L5 124 L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.91	3.57

FILE 'STNGUIDE' ENTERED AT 11:20:21 ON 12 APR 2010
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.14	3.71

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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s guanidinium or thiocyanate or isothiocyanate

7524 GUANIDINIUM
42962 THIOCYANATE
29807 ISOTHIOCYANATE
L6 77588 GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE

=> s 15 not 16

L7 89 L5 NOT L6

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.91	6.62

FILE 'STNGUIDE' ENTERED AT 11:21:43 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 9, 2010 (20100409/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.14	6.76

FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (solid support) or (solid phase)

1258254 SOLID
603476 SUPPORT
10289 SOLID SUPPORT
 (SOLID(W) SUPPORT)
1258254 SOLID
2087139 PHASE

125173 SOLID PHASE
(SOLID(W)PHASE)
L8 132436 (SOLID SUPPORT) OR (SOLID PHASE)

=> s 17 and 18

L9 6 L7 AND L8

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.91	9.67

FILE 'STNGUIDE' ENTERED AT 11:23:13 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 9, 2010 (20100409/UP).

=> d 19 1-6 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L9 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Compositions and methods for using a solid support to
purify RNA
AB The invention concerns a method for purifying substantially pure and
undegraded RNA from biol. material comprising RNA,
comprising the steps of: (a) mixing the biol. material with an RNA
Lysing/ Binding Solution buffered at a pH of greater than about 7,
the RNA Lysing/Binding Solution comprising an RNA
-complexing salt; (b) contacting the mixture to a solid
support such that nucleic acids comprising substantially
undegraded RNA in the mixture preferentially bind to the
solid support; (c) washing the solid
support with a series of RNA wash solns. to remove biol.
materials other than bound nucleic acids comprising substantially
undegraded RNA, wherein the series of wash solns. comprises a
first wash comprising alc. and an RNA-complexing salt at a
concentration of at least 1 M and a second wash comprising an alc., buffer and
an optional chelator; and (d) preferentially eluting the bound substantially
undegraded RNA from the solid support with
an RNA Elution Solution in order to obtain substantially pure and
undegraded RNA. Reagents, methods and kits for the purification of
RNA from biol. materials are provided.
AN 2004:80382 HCAPLUS <<LOGINID::20100412>>
DN 140:107795
TI Compositions and methods for using a solid support to
purify RNA
IN Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim
Elayne; Wages, John M.
PA USA
SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040019196	A1	20040129	US 2003-418194	20030416 <--
	US 7148343	B2	20061212		
	US 20030073830	A1	20030417	US 2001-974798	20011012 <--
	CA 2463317	A1	20030424	CA 2001-2463317	20011012 <--
	AU 2002211719	A1	20030428	AU 2002-211719	20011012 <--
	AU 2002211719	B2	20070614		
	EP 1438426	A1	20040721	EP 2001-979794	20011012 <--
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	JP 2005505305	T	20050224	JP 2003-536461	20011012 <--
	JP 3979996	B2	20070919		
	AU 2004233035	A1	20041104	AU 2004-233035	20040415 <--
	AU 2004233035	B2	20090723		
	CA 2522446	A1	20041104	CA 2004-2522446	20040415
	WO 2004094635	A2	20041104	WO 2004-US12033	20040415
	WO 2004094635	A3	20041216		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1618194	A2	20060125	EP 2004-760008	20040415
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	JP 2006523463	T	20061019	JP 2006-513124	20040415
	US 20050032105	A1	20050210	US 2004-909724	20040802 <--
	US 20070043216	A1	20070222	US 2006-589364	20061030 <--
PRAI	US 2001-974798	A2	20011012	<--	
	AU 2002-211719	A3	20011012	<--	
	WO 2001-US32073	W	20011012	<--	
	US 2003-418194	A	20030416		
	WO 2004-US12033	W	20040415		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

AB The invention includes reagents and methods for the isolation of nucleic acids. The reagents described herein contain a nucleic acid

precipitating

agent and a solid phase carrier. The reagents can optionally be formulated to cause the lysis of a cell. These reagents can be used to isolate a target nucleic acid mol. from a cell or a solution containing a mixture of different size nucleic acid mols. In a preferred embodiment plasmid DNA from bacterial cells are purified by precipitation with 1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration

The DNA

is further purified by reversible binding to paramagnetic beads

that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a mixture of nucleic

acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification. The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 2002:539860 HCAPLUS <<LOGINID::20100412>>

DN 137:89428

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

IN McKernan, Kevin J.

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055727	A2	20020718	WO 2002-US353	20020109 <--
	WO 2002055727	A3	20021003		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2433746	A1	20020718	CA 2002-2433746	20020109 <--
	AU 2002239826	A1	20020724	AU 2002-239826	20020109 <--
	US 20020106686	A1	20020808	US 2002-42923	20020109 <--
	EP 1349951	A2	20031008	EP 2002-705692	20020109 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	US 20060024701	A1	20060202	US 2005-126775	20050511 <--
PRAI	US 2001-260774P	P	20010109	<--	
	US 2002-42923	B1	20020109		
	WO 2002-US353	W	20020109		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support

AB The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the

leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD11a, CD18, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second solid support which is neg. charged. Kits for isolating nucleic acid from samples form further embodiments of the invention.

AN 2001:904506 HCAPLUS <<LOGINID::20100412>>

DN 136:15912

TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support

IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack

PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001094572	A1	20011213	WO 2001-GB2472	20010605 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2410888	A1	20011213	CA 2001-2410888	20010605 <--
	CA 2410888	C	20080916		
	EP 1290155	A1	20030312	EP 2001-934205	20010605 <--
	EP 1290155	B1	20060809		
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	AU 2001260507	B2	20060831	AU 2001-260507	20010605 <--
	AT 335815	T	20060915	AT 2001-934205	20010605 <--
	ES 2269399	T3	20070401	ES 2001-934205	20010605 <--
	US 20030180754	A1	20030925	US 2003-297301	20030430 <--
	US 20080293035	A1	20081127	US 2008-98411	20080404 <--
PRAI	GB 2000-13658	A	20000605	<--	
	WO 2001-GB2472	W	20010605	<--	
	US 2003-297301	B1	20030430		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Solid phase technique for selectively isolating nucleic acids

AB A method of isolating target nucleic acid mols. from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb, the target species of nucleic acid mol., characterized by a particular mol. size, to

paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 1999:736906 HCAPLUS <<LOGINID::20100412>>

DN 131:334336

TI Solid phase technique for selectively isolating nucleic acids

IN McKernan, Kevin; McEwan, Paul; Morrison, William

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9958664	A1	19991118	WO 1999-US10572	19990513 <--
	W: CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6534262	B1	20030318	US 1999-311317	19990513 <--
	US 20030235839	A1	20031225	US 2003-346714	20030116 <--
	US 20040214175	A9	20041028		
	US 20060003357	A1	20060105	US 2005-129218	20050513 <--
PRAI	US 1998-85480P	P	19980514	<--	
	US 1999-121779P	P	19990226	<--	
	US 1999-311317	A1	19990513	<--	
	US 2003-346714	A3	20030116		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components

AB The present invention provides a method of isolating nucleic acid from a sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.

AN 1996:458048 HCAPLUS <<LOGINID::20100412>>

DN 125:107039

OREF 125:19863a,19866a

TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components

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PA Dynal A/s, Norway; Dzieglewska, Hanna Eva
 SO PCT Int. Appl., 53 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9618731	A2	19960620	WO 1995-GB2893	19951212 <--
	WO 9618731	A3	19960912		
	W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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	CA 2207608	C	20090407		
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	AU 706211	B2	19990610		
	EP 796327	A2	19970924	EP 1995-940351	19951212 <--
	EP 796327	B1	20040728		
	R: AT, BE, CH, DE, FR, GB, IT, LI, SE				
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	JP 3787354	B2	20060621		
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	US 1997-849686	A1	19970821	<--	
	US 2005-234001	A1	20050923		
	US 2007-671426	B1	20070205		
	US 2008-54332	A1	20080324		

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RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Purification of nucleic acids from solution without precipitation by binding to a solid phase

AB A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide binding to the magnetic microparticles. The magnetic microparticles with bound polynucleotides are separated from the solution and the polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude preps. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution

buffer.
 AN 1996:350414 HCAPLUS <<LOGINID::20100412>>
 DN 125:5056
 OREF 125:1147a,1150a
 TI Purification of nucleic acids from solution without
 precipitation by binding to a solid phase
 IN Hawkins, Trevor
 PA Whitehead Institute for Biomedical Research, USA
 SO PCT Int. Appl., 38 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9609379	A1	19960328	WO 1995-US11839	19950919 <--
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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